

Title (en)

INTEGRATED ELECTRICALLY ACTUATED MECHANICAL RELEASE MECHANISM

Title (de)

INTEGRIERTER UND ELEKTRISCH BETÄTIGTER MECHANISCHER AUSLÖSEMECHANISMUS

Title (fr)

MECANISME INTEGRE DE DECLenchement MECANIQUE A COMMANDE ELECTRIQUE

Publication

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Application

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Abstract (en)

[origin: WO0063939A1] An integrated electrically actuatable mechanical release mechanism provides three separate fault detectors each arranged to detect a different current-driven fault in an electrical circuit. In a preferred embodiment a bimetallic strip is used to detect a low-current fault condition insufficient to trip a short-circuit detection mechanism, an active material bender is used to detect current imbalances between the live and neutral lines, and a coil and armature are used to detect short circuits. The integrated mechanism has the advantage that electrical safety can be guaranteed across a range of electrical operating conditions.

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IPC 8 full level

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